



Title: Method of DNA Shuffling with Polynucleotides
Produced by Blocking or Interrupting a Synthesis or
Amplification Process

Serial No.: 09/214,645

Docket No.: DIV-1220-2

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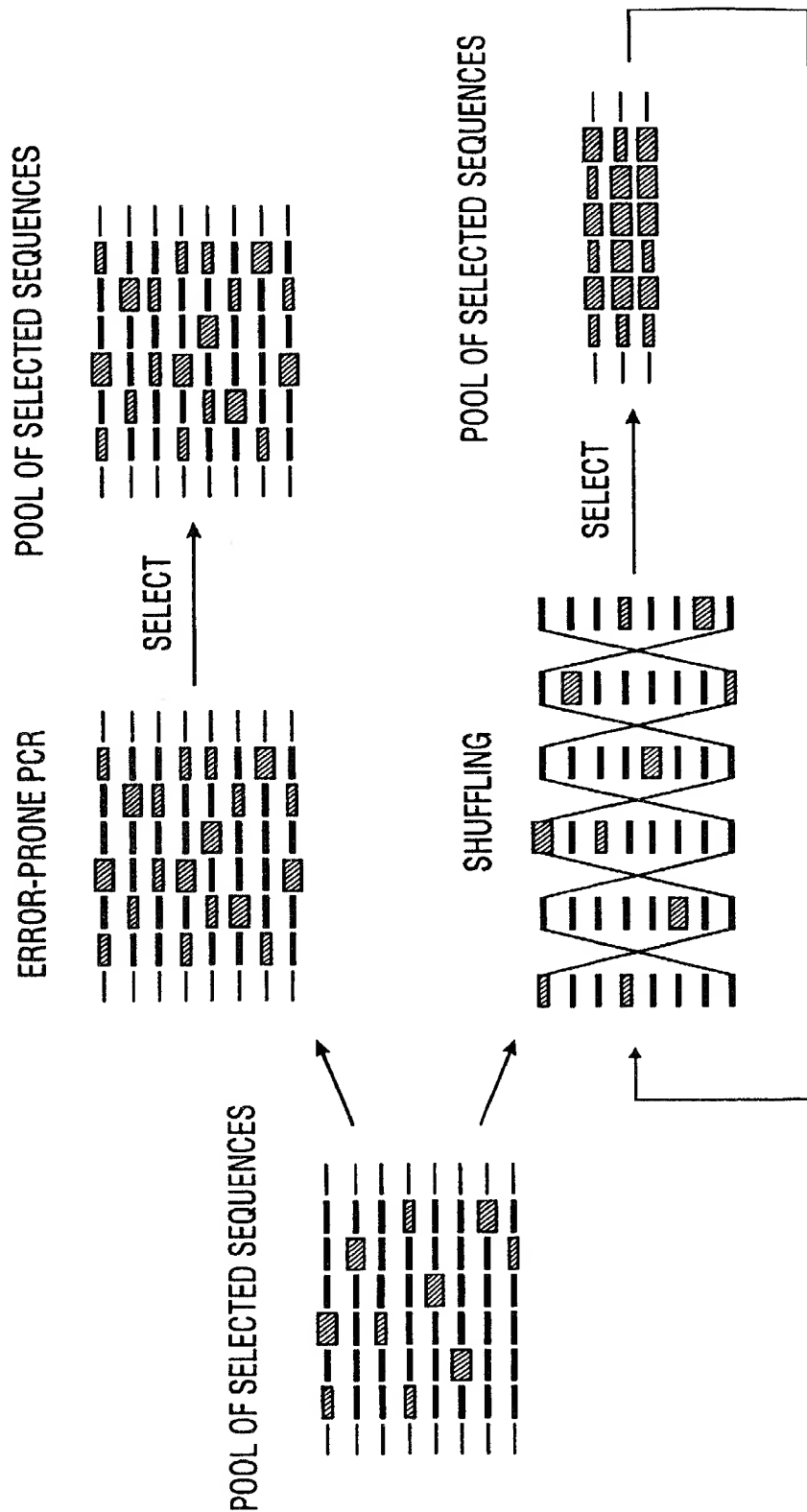


FIG. 1



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SEXUAL PCR

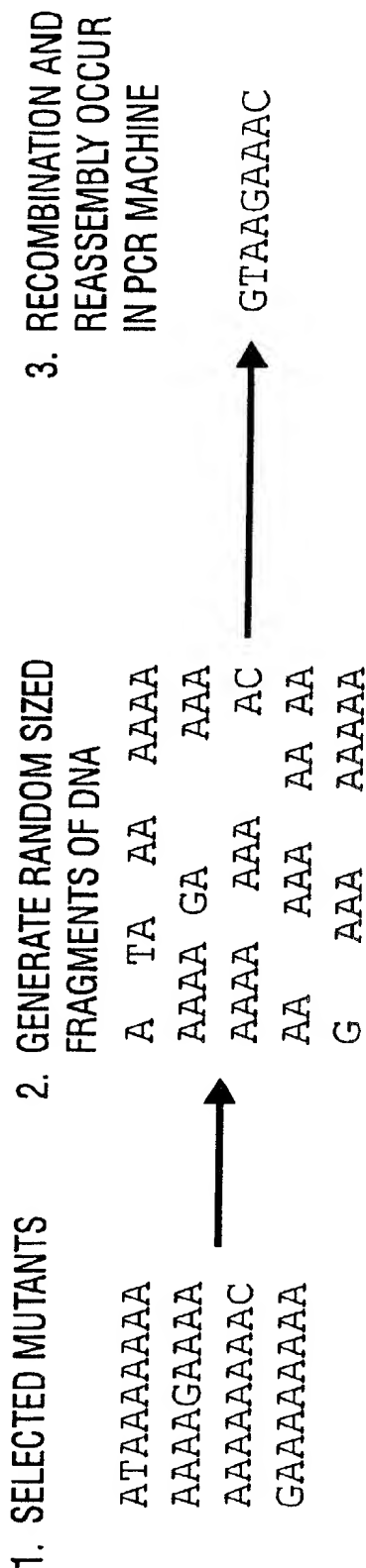


FIG. 2



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DNA ADDUCTS FOR SEXUAL PCR

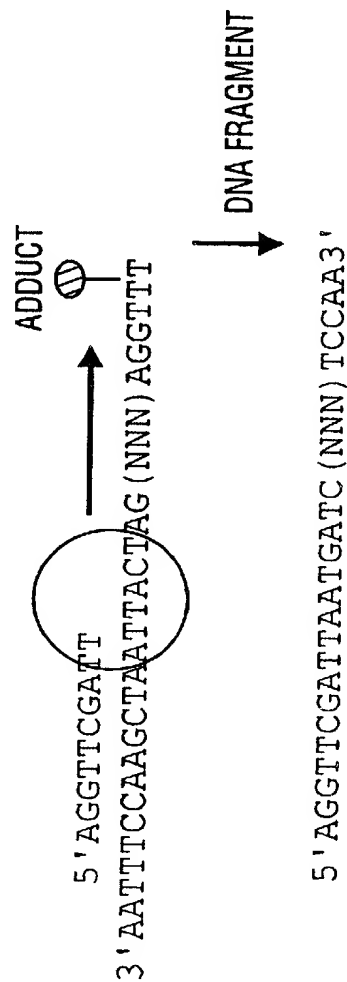
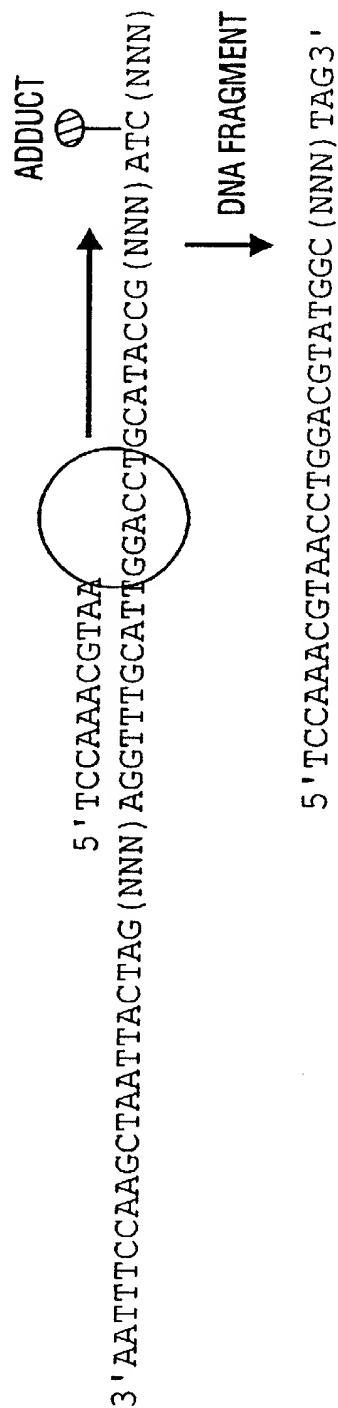


FIG. 3

O I P E J
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DNA ADDUCTS

Aristolochic acid 1
Aristolochic acid 2
2-Amino-3-methylimidazo(4,5-f) quinoiline
2-Amino-1-methyl-6-phenylimidazo(4,5-b)pyridine
2-bromoacrolein (2BA)
7-bromomethylbenz(a)anthracene
benzo(a)pyrene
benzo(a)pyrene dilepoxide
Mitomycin C
camptothecin
(+)-CC-1065 (from *Streptomyces zelensis*)
N-hydroxy-4'-flouro-4-acetylaminobiphenyl
trivalent chromium
aromatic amines
platinum(II)
UV

FIG. 4



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CREATING DNA ADDUCTS USING U.V. LIGHT

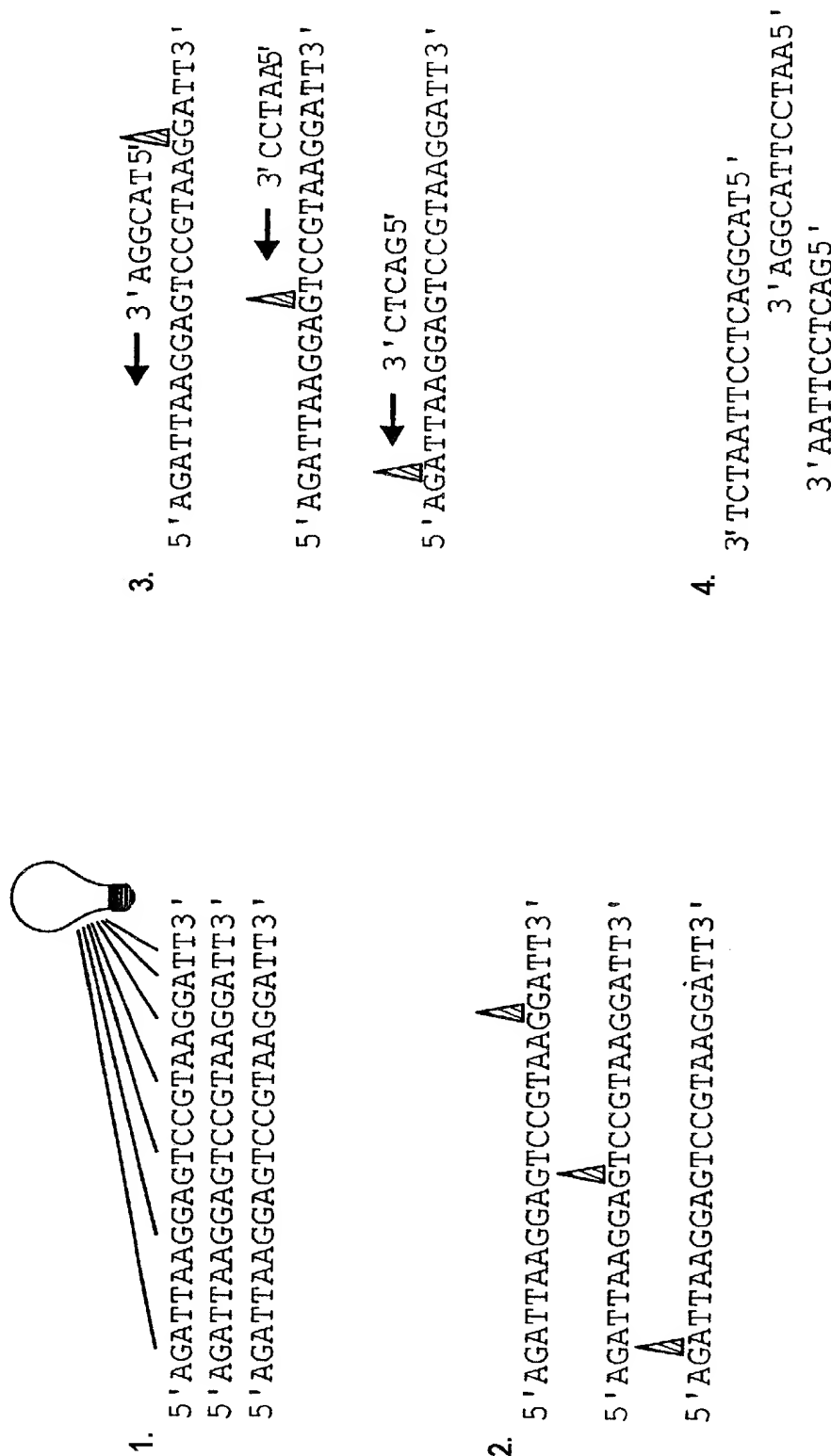


FIG. 5

Reassembly of DNA fragments

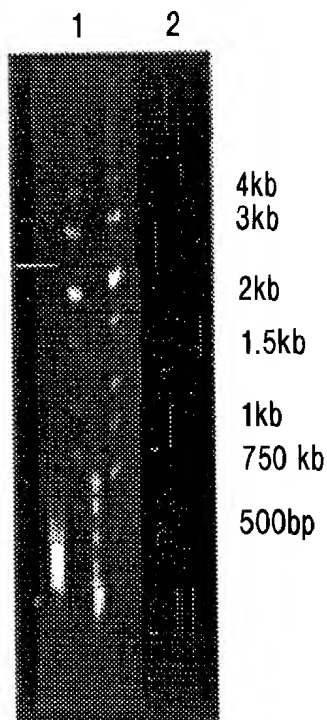


FIG. 6A

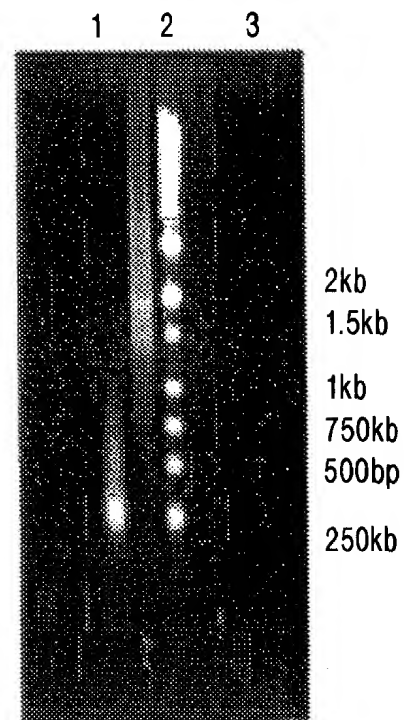


FIG. 6B